

Notice of Allowability

Application No.

10/710,538

Examiner

PAUL SAUNDERS

Applicant(s)

GAT, NAHUM

Art Unit

2622

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 5/13/2008.
2. ☒ The allowed claim(s) is/are 1-8 and 10-19.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
- * Certified copies not received: ____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date ____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date ____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date ____
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☒ Interview Summary (PTO-413),
Paper No./Mail Date 8/13/08.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other ____.

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Robert Kasody (Reg. No. 50,268) on 8/13/2008. The Examiner thanks the Applicant for their timely response.

The application has been amended as follows:

Amendments to the Claims

Claims 20-27 (Canceled).

DETAILED ACTION

Response to Arguments

2. Applicant's arguments, filed 5/13/2008, with respect to claim 1 and its dependents have been fully considered and are persuasive. The rejections grounded on Partynski have been withdrawn.

Allowable Subject Matter

3. **Claims 1-8 and 10-19** allowed.
4. The following is an examiner's statement of reasons for allowance.

Regarding **claim 1**, the limitations "at least two mirrors ... mounted to a fixed platform ... in a plane substantially parallel to a target to provide substantially orthogonal observation of a ground position; said aiming means allowing independent rotation of said mirrors about at least one of the axes in the plane of said mirrors; at least one of said mirrors being mounted by aiming means allowing rotation about at least two of said axes; ... wherein the aiming means occurs without reorientation of the fixed platform relative to the unstable carrier platform, wherein movement of the at least one of said mirrors occurs in a substantially continuous pattern that predicatively mirrors motion of and approximately angular velocities and accelerations of the unstable carrier platform" in combination as claimed are not provided nor made obvious by the prior art made of record.

Prior art related to the invention as claimed are disclosed by Yonover, Partynski and Hara as follows:

Yonover (US 6,678,395 B2) teaches aerial observation using one mirror. However, the one mirror only has one axes of rotation.

Partynski (US 6,826,358 B2) teaches aerial observation using two mirrors. However, the two mirrors are not in a plane substantially parallel to a ground position rather perpendicular and the fixed platform is reoriented relative to the carrier platform when aiming.

Hara (US 7,286,163 B2) teaches stabilization using two mirrors in a plane parallel to a target. However each mirror only rotates in one axis and without prediction.

Thus, Yonover, Partynski and Hara fail to disclose the limitations of a stabilization system for use on an unstable carrier platform using two mirrors in a plane parallel to a ground target at least one of the mirrors rotatable in two axes of the plane at least one of the mirrors moving in a continuous and predictive motion of the carrier platform and further as claimed in claim 1. Therefore, claim 1 is allowed.

Regarding **claims 2-8 and 10-19**, they depend on claim 1. Therefore, they are also allowed.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to PAUL SAUNDERS whose telephone number is (571)270-3319. The examiner can normally be reached on Mon-Thur 9am-5pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, NgocYen Vu can be reached on 571.272.7320. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/PS/
8/13/2008

***/Ngoc-Yen T. VU/
Supervisory Patent Examiner, Art Unit 2622***